

CLAIMS

1) Wall device for fittings characterized in that includes:

- a plurality of horizontal and vertical uprights (2) mutually coupled by at least first adjustable fixing means (10);
- connection means (20) for joining the fittings;

the uprights (2) including at least a first channel section (5) and a second channel section (6), each one including, starting from a respective bottom side (50), two respective opposed side parts (51) and nearly orthogonal to the bottom side (50), two respective first portions (52) parallel to the bottom side (50); said sides, parts and portions (50, 51, 52) of the at least first (5) and second (6) channel sections defining respective cavities (55) and longitudinal openings (8) for the first fixing means (10) and for the connection means (20); at least a first portion (52) of each first channel section having also a second portion (53) orthogonal to the first portions (52) and facing outwards the respective cavity (55).

2) Device according to claim 1 characterized in that the second portions (53) of the first channel section (5) are carried out in a single body with the latter.

3) Device according to the claim 1 characterized in that the at least second portion (53) consists of a shaped channel section (66) fixed to an inner protrusion (56) of a correspondent first portion (52).

4) Device according to the claim 1 characterized in that includes two vertical uprights (2), each one consisting of a first channel section (5), and two horizontal uprights (2), each one consisting of a second channel section (6).

5) Device according to the claim 1 characterized in that each channel section (5, 6) has in correspondence of the bottom side (50) at least a window (57).

6) Device according to the claim 1 characterized in that the first fixing means (10) are fit for connecting a second channel section (6) to an upright (2) and they consist of a plate mean (15), which can be insert inside the cavity (55) of the second channel section (6) and is removably connected, through clamping means (7), to a first bracket mean (16), which can be fit inside the cavity (55) of the upright (2).

- 7) Device according to claim 1 characterized in that includes second fixing means (11) consisting of a plate mean (15) and an abutment mean (17), removably connected through clamping means (7) and fit for clamping the second portions (53) of a first channel section (5) and the first portions (52) of a second channel section (6).
- 5 8) Device according to claim 6 or claim 7 characterized in that the plate mean (15) has a nearly rectangular shape with at least two flat faces (46), carried out in correspondence of two opposite vertexes of the same plate.
- 10 9) Device according to claim 1 characterized in that includes third fixing means (12), fit for connecting two channel section (5, 6) and consisting of a second U shaped bracket mean (18), which can be insert inside the cavity (55) of the first channel section (5) and is removably connected, through clamping means (7), to inserting means (19), which can be fit inside the cavity (55) of the remaining channel section (5, 6).
- 15 10) Device according to any of the claims from 7 to 9 characterized in that the clamping means (7) include screws or bolts.
- 20 11) Device according to claim 7 characterized in that the second fixing means (11) include spacer means (23) interposed at least between the abutment mean (17) and the second channel section (6).
- 25 12) Device according to claim 6 characterized in that the first bracket mean (16) includes two portions, rotatably coupled and connected respectively to a plate mean (15) and to a channel section (5, 6).
- 30 13) Device according to claim 1 characterized in that includes sixth fixing means (13), consisting of an element which can be associated to the first channel section (5) and is provided with at least a couple of lateral slots (113) for inserting, by rotation, the first portions (52) of a second channel section (6).
- 14) Device according to claim 13 characterized in that the end, close to lateral slots (113), of central wall of sixth fixing means (13) has a first recess (114).
- 35 15) Device according to claim 13 characterized in that the fixing means (13) consists of a "C"

shaped element which can be inserted inside the first channel section (5).

- 5 16) Device according to claim 15 characterized in that the inner ends of lateral slots (113) have corresponding tabs (115) protruding outwards to form a stop for the first channel section (5).
- 10 17) Device according to claims 14 and 15 characterized in that the inner end of the first recess (114) has a corresponding tab (116) protruding outwards to form a stop for the first channel section (5).
- 18) Device according to claim 14 characterized in that the end of central wall of sixth fixing means (13), opposed to lateral slots (113), has a second recess (117).
- 15 19) Device according to claim 13 characterized in that the fixing means (13) consists of a parallelepiped shaped element.
- 20 20) Device according to claim 19 characterized in that one free end of fixing means (13) is provided with a housing mean (118) for a related coupling mean (119) which can be inserted inside a channel section (5, 6).
- 21) Device according to claim 20 characterized in that housing mean (118) and coupling mean (119) are provided with respective holes (120) for a fixing pin (121).
- 25 22) Device according to claim 1 characterized in that includes a plurality of fasten means (30) fit for fixing the device (1) to a wall (60).
- 30 23) Device according to claim 22 characterized in that each fasten mean (30) includes a plate mean (15), inserted in the cavity (55) of the second channel section (6) and removably connected to a L shaped bracket mean (31), by clamping means (7).
- 24) Device according to claim 23 characterized in that the L shaped bracket mean (31) includes at least a slot (32) for the clamping means (7).
- 35 25) Device according to claim 1 characterized in that includes a plurality of lock means (59) fit for fixing the device (1) to a space of a wall (60).

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- 26) Device according to claim 1 characterized in that includes connection means (24) connecting two side by side positioned first channel sections (5).
- 5 27) Device according to claim 1 characterized in that each connection mean (20) includes at least a support (21) of at least a respective fitting element, removably connected to a plate mean (15), inserted in the cavity (55) of a second channel section (6), through clamping means (7).
- 10 28) Device according to claim 27 characterized in that the connection means (20) include at least a anti-rotation bracket (22), connected to the support (21) and partially inserted in the longitudinal opening (8) of the related channel section (6).
- 15 29) Device according to claim 1 characterized in that includes fourth fixing means (25) each having a first portion (26), having at least a transversal seat (28), fit for housing a part of a first portion (52) of a second channel section (6), and a protrusion (27), almost orthogonal to said transversal seat (28) and which can be inserted inside the cavity (55) of a respective channel section (5, 6).
- 20 30) Device according to claim 29 characterized in that the fourth fixing means (25) include threaded means for blocking the portion (52).
- 25 31) Device according to claims 3 characterized in that include fifth fixing means (40), fit for connecting two channel section (5, 6), and including at least an U shaped connection element (41), a first portion of which is removably connected by clamping means (7), to an insert (42), for blocking the inner protrusion (56) of a first channel section (5), and whose remaining portion is inserted inside the cavity (55) of the remaining channel section (5, 6).
- 30 32) Device according to claim 31 characterized in that the fixing means (40) further include a shaped spacer element (43) interposed between the clamping means (7) and the connection element (41), and between the latter and the insert (42).
- 35 33) Device according to claim 1 characterized in that includes third fixing means (12), fit for connecting two channel section (5, 6) and consisting of a plate mean (15), inserted inside the cavity (55) of a first channel section (5) and connected by clamping means (7) to

inserting means (19), fit inside the cavity (55) of the remaining channel section (5, 6).

34) Device according to claim 9 or 33 characterized in that the inserting means (19) consist of a channel section portion with rectangular cross section.

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35) Device according to claim 1 characterized in that includes at least a covering panel (4) fixed to the uprights (2).

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36) Device according to claim 35 characterized in that the covering panels (4) are screwed to the vertical uprights (2).

37) Device according to claim 35 characterized in that the covering panels (4) are removably fixed to horizontal uprights (2) by means of a plurality of hanging means (9).

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38) Device according to claim 37 characterized in that each hanging mean (9) includes a "S" shaped section element fixed to the covering panel (4) by means of screws in order to form a side for a horizontal uprights (2), consisting of a second channel section (6).

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39) Device according to claim 1 characterized in that include at least an insulation panel (37) whose peripheral portions are inserted inside the longitudinal openings (8) of the channel sections (5, 6).

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40) Device according to claim 1 or claim 39 characterized in that includes spacing means (35) of uprights (2), side by side positioned and fit to form a space (36) delimited by said uprights (2).

41) Device according to according to claim 37 characterized in that includes sealing means interposed between the uprights (2) and the panels (4).

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42) Device according to claim 26 characterized in that the connection means (24) include an U shaped element and screw means of side abutment of the first portions (52) of the first channel section (5).

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43) Device according to claim 42 characterized in that the connection means (24) include an abutment spacer (29) of the side parts (51) of the first channel sections (5) for reciprocally

spacing apart said side parts.

- 5 44) Device according to claim 5 characterized in that each channel section (5, 6) has, in correspondence of the window (57), a removable portion (61) fit for the insertion of elements inside the window (57).
- 45) Device according to claim 44 characterized in that the removable portion (61) is fixed to the channel section (5, 6) by means of screw, nuts and washer.